

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

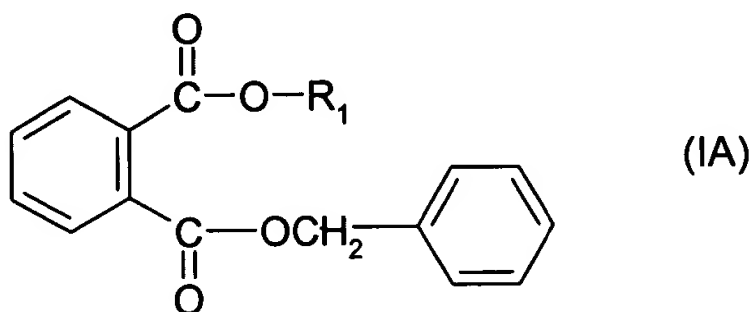
Listing of claims:

Claims 1-19 (canceled).

Claim 20 (currently amended): A poly urethane/urea-forming casting composition, which is capable of being cast and cured at temperatures between 15 and 35°C, comprising:

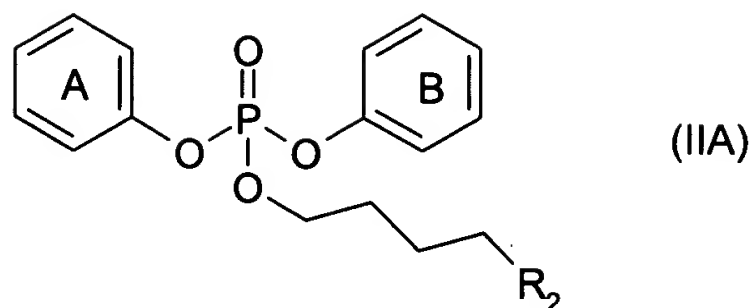
- (a) an isocyanate component or an isocyanate functional prepolymer having at least two isocyanate groups per molecule that contains or has been reacted with polytetramethylene glycol;
- (b) an aromatic amine curative; and
- (c) a phosphate ester or phthalate ester having a vapor pressure of less than 100 mPa at 25°C;

wherein said phthalate ester is a monomer according to formula IA



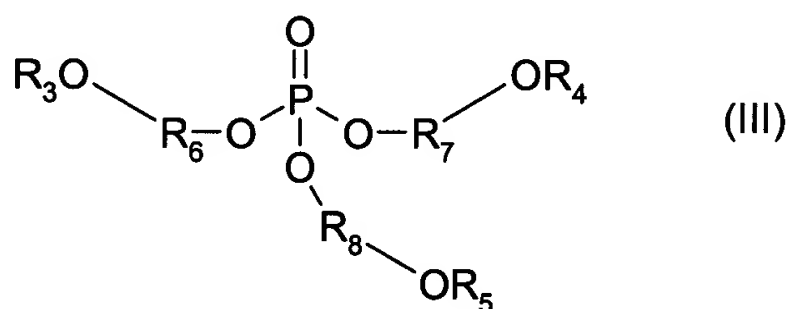
in which R₁ is unsubstituted or alkyl-substituted C₃-C₁₂ alkyl; and

wherein said phosphate ester is a monomer according to formula IIA



in which R_2 is ~~hydrogen~~ or an alkyl-substituted C_2 - C_6 alkyl group, and aromatic rings A and B independently of one another are unsubstituted, or substituted by one or more alkyl substitutions; or

wherein said phosphate ester is a monomer according to formula III



in which R_3 , R_4 , and R_5 , independently from one another, are unsubstituted or alkyl substituted C_1 - C_5 alkyl, and R_6 , R_7 , and R_8 , independently from one another, are unsubstituted or alkyl substituted C_1 - C_5 alkylene.

Claim 21 (previously presented): A casting composition according to claim 20 wherein component (a) is a low free toluene diisocyanate prepolymer blend having a free toluene diisocyanate content below 0.4% by weight of said prepolymer blend.

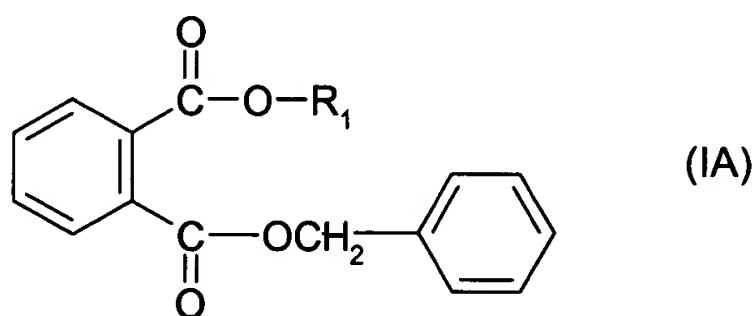
Claim 22 (previously presented): A casting composition according to claim 20 wherein component (a) is a prepolymer blend that is a reaction mixture of an organic diisocyanate and polytetramethylene glycol.

Claim 23 (previously presented): A casting composition according to claim 20 wherein the aromatic amine curative is selected from the group consisting of diethyl toluene diamine, tertiary butyl toluene diamine, dimethylthiotoluene diamine, and 1,2-bis(2-aminophenylthio)ethane.

Claim 24 (previously presented): A casting composition according to claim 23 wherein the aromatic amine curative is dimethylthiotoluene diamine.

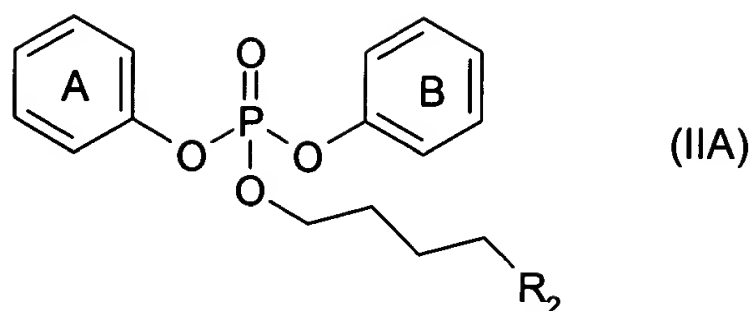
Claim 25 (previously presented): A casting composition according to claim 20 further comprising a polyether- and/or polyester polyol having a number average molecular weight of at least 250.

Claim 26 (previously presented): A casting composition according to claim 20 wherein component (c) is a phthalate ester according to formula IA



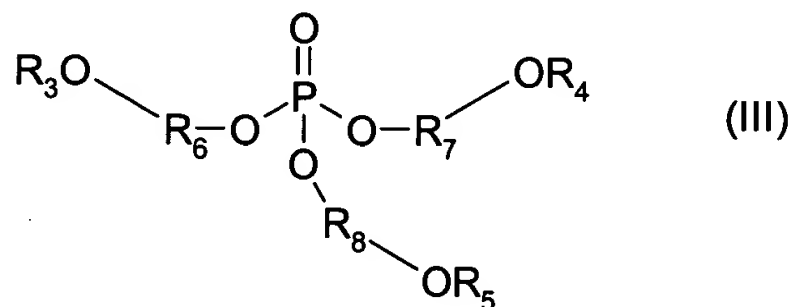
in which R₁ is unsubstituted or alkyl-substituted C₃-C₁₂ alkyl.

Claim 27 (currently amended): A casting composition according to claim 20 wherein component (c) is a phosphate ester according to formula IIA



in which R_2 is ~~hydrogen~~, or an alkyl-substituted C_2 - C_6 alkyl group, and aromatic rings A and B independently of one another are unsubstituted, or substituted by one or more alkyl substitutions.

Claim 28 (previously presented): A casting composition according to claim 20 wherein component (c) is a phosphate ester according to formula III



in which R_3 , R_4 , and R_5 , independently from one another, are unsubstituted or alkyl substituted C_1 - C_5 alkyl, and R_6 , R_7 , and R_8 , independently from one another, are unsubstituted or alkyl substituted C_1 - C_5 alkylene.

Claim 29 (previously presented): A casting composition according to Claim 20 wherein component (c) is ethylhexyl diphenyl phosphate.

Claim 30 (previously presented): A casting composition according to claim 20 wherein component (c) is butyl benzyl phthalate.

Claim 31 (previously presented): A casting composition according to claim 20 wherein component (c) is isodecyl diphenyl phosphate.

Claim 32 (previously presented): A casting composition according to claim 20 wherein component (c) is tributoxyethyl phosphate.

Claim 33 (currently amended): A process for preparing a polyurethane casting, comprising the following steps: contacting (a) an isocyanate component or an isocyanate functional prepolymer having at least two isocyanate groups per molecule that contains or has been reacted with polytetramethylene glycol, with (b) an aromatic amine curative having at least two primary amine groups, and (c) a plasticizing agent having a vapor pressure of less than 100 mPa at 25°C and/or an evaporation rate of less than 40% after 24 hours at 87°C according to ASTM 1203-67; pouring the combination of (a), (b) and (c) into a mold; and curing, wherein the foregoing steps are all carried out at room temperature without the application of external heat.

Claim 34 (previously presented): The process of claim 33 wherein component (a) is a low free toluene diisocyanate prepolymer blend having a free toluene diisocyanate content below 0.4% by weight of said prepolymer blend.

Claim 35 (previously presented): The process of claim 33 wherein component (a) is a prepolymer blend that is a reaction mixture of an organic diisocyanate and polytetramethylene glycol.

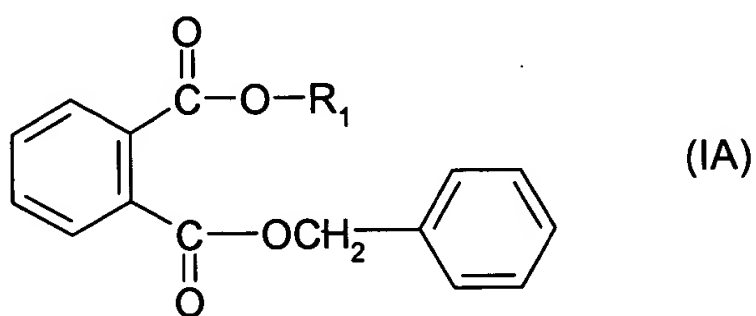
Claim 36 (previously presented): The process of claim 33 wherein the aromatic amine curative is selected from the group consisting of diethyl toluene diamine, tertiary butyl toluene diamine, dimethylthiotoluene diamine, and 1,2-bis(2-aminophenylthio)ethane.

Claim 37 (previously presented): The process of claim 33 wherein the aromatic amine curative is dimethylthiotoluene diamine.

Claim 38 (previously presented): The process of claim 33 further comprising the step of adding to the combination of (a), (b) and (c) a polyether and/or polyester polyol having a number average molecular weight of at least 250.

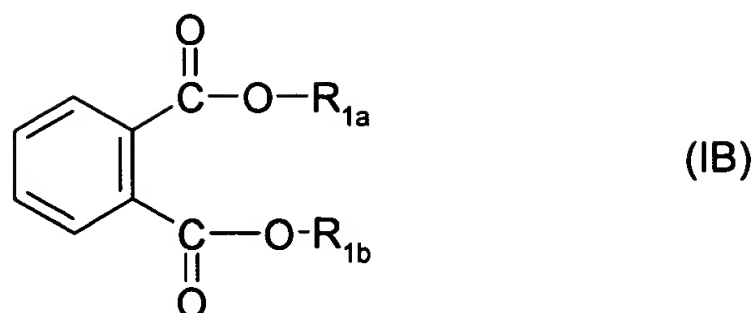
Claim 39 (previously presented): The process of claim 33 wherein component (c) is a phosphate ester or phthalate ester having a vapor pressure of less than 100 mPa at 25°C.

Claim 40 (previously presented): The process of claim 39 wherein component (c) is a phthalate ester represented by formula IA



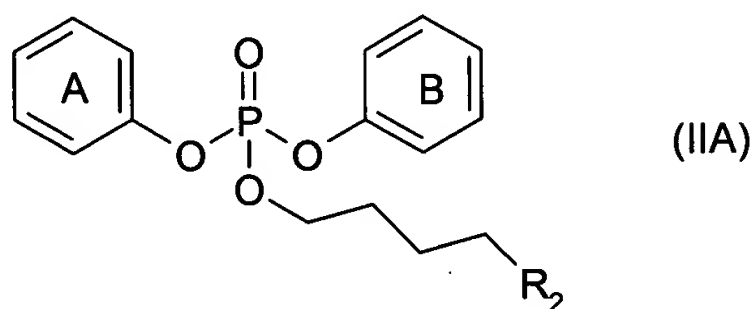
wherein R₁ is unsubstituted or alkyl-substituted C₃-C₁₂ alkyl.

Claim 41 (previously presented): The process of claim 39 wherein component (c) is a phthalate ester represented by formula IB



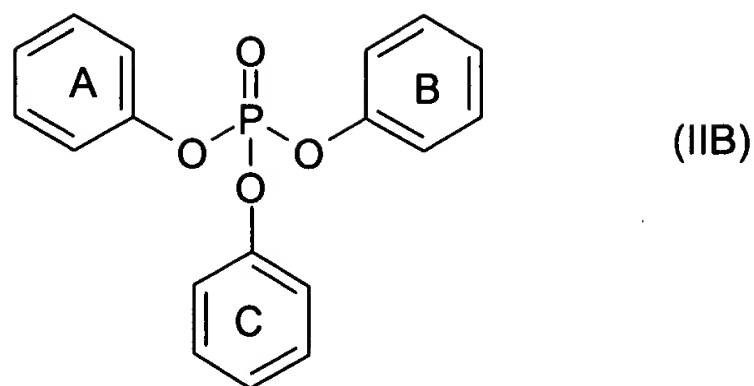
wherein R_{1a} and R_{1b} , independently of one another are unsubstituted or alkyl-substituted C_5 - C_{12} alkyl.

Claim 42 (currently amended): The process of claim 39 wherein component (c) is a phosphate ester represented by formula IIA



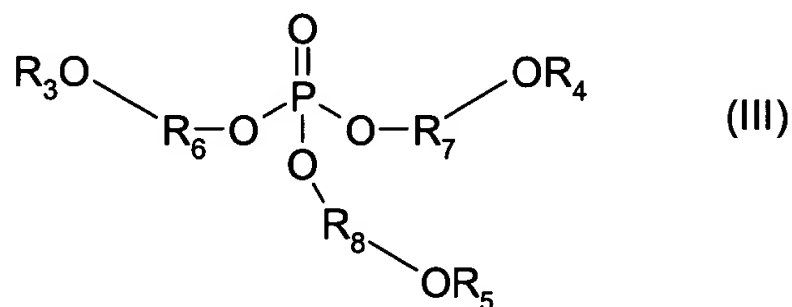
wherein R_2 is ~~hydrogen~~, or an alkyl-substituted C_2 - C_6 alkyl group, and aromatic rings A and B independently of one another are unsubstituted, or substituted by one or more alkyl substitutions.

Claim 43 (previously presented): The process of claim 39 wherein component (c) is a phosphate ester represented by formula IIB



wherein aromatic rings A, B and C, independently of one another, are unsubstituted, or substituted by one or more alkyl substitutions.

Claim 44 (previously presented): The process of claim 39 wherein component (c) is a phosphate ester represented by formula III



wherein R₃, R₄, and R₅, independently from one another, are unsubstituted or alkyl substituted C₁-C₅ alkyl, and R₆, R₇, and R₈, independently from one another, are unsubstituted or alkyl substituted C₁-C₅ alkylene.

Claim 45 (previously amended): The process of Claim 39 wherein component (c) is ethylhexyl diphenyl phosphate.

Claim 46 (previously presented): The process of claim 39 wherein component (c) is butyl benzyl phthalate.

Claim 47 (previously presented): The process of claim 39 wherein component (c) is isodecyl diphenyl phosphate.

Claim 48 (previously presented): The process of claim 39 wherein component (c) is tributoxyethyl phosphate.

Claim 49 (previously presented): A cast polyurethane article obtained by a process according to claim 33.